## WHAT IS CLAIMED IS:

1		1.	A method of eliminating or reducing infection in a biological material,
2	the method co	mprisir	ng removing a binding site contained in the material so that an infectious
3	agent is preve	nted or	inhibited from binding to the biological material.
1		2.	The method of claim 1, wherein the infection is prion infection, and the
2	infectious age	nt is pr	ion protein.
1		3.	The method of claim 1, wherein the biological material is bioprosthetic
12 /	tissue.		
1		4.	The method of claim 3, wherein the structural integrity of the tissue is
2	maintained.		
1		5.	The method of claim 3, further comprising contacting the bioprosthetic
2	tissue with a j	oreparat	tion comprising a surfactant.
1		6.	The method of claim 3/ further comprising contacting the bioprosthetic
2	tissue with a j	preparat	tion comprising a surfactant and a denaturing agent.
1		7.	The method of claim 6, wherein the surfactant is Tween 80.
		0	Till a de la Callina Cambanain the departuring agent is a motion
1		8.	The method of claim 6, wherein the denaturing agent is a protic
2	solvent.		
1		9.	The method of claim 8, wherein the protic solvent is an alcohol.
1		9.	The method of claim 8, wherein the profit solvent is an alcohol.
1		10.	The method of claim 9, wherein the alcohol is ethanol or isopropanol.
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1		11.	The method of claim 6, wherein the preparation further comprises an
2	cross linking	agent.	
1		12.	The method of claim 11, wherein the cross linking agent is an
2	aldehyde.		
1		13.	The method of claim 12, wherein the aldehyde is formaldehyde or
2	olutaraldehyd	le.	

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1	14.	The method of claim 1, wherein the infectious agent binding site is			
2	comprised of phospholipid.				
1	15.	The method of claim 14, wherein the phospholipid is selected from the			
2	group consisting of pl	hosphatidylinositol, phosphatidylethanolamine,			
3	gangliotetraosylceramide, phosphatidylserine, phosphatidylcholine, phosphatidic acid, and				
4	sphingomyeline.				
	1				
1_	16.	The method of claim 14, further comprising contacting the tissue with			
2/	a preparation including a phospholipase.				
<u>/</u> 1	17.	The method of claim 1, further comprising contacting the bioprosthetic			
<sup>/</sup> 2	tissue with a preparation comprising formaldehyde, ethanol, and Tween 80.				
1	18.	The method of claim 2, wherein the prion protein further comprises			
2	prion-precursor protein.				
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1	19.	The method of claim 1, further comprising a terminal sterilization step.			
1	20.	The method of claim 1, further comprising washing the tissue to			
2	promote removal of the prion protein.				
۷	promote removar or to	he priori protein.			
1	21.	A method of treating a biological material, the method comprising			
2	removing a binding s	ite contained in the material so that an unwanted protein is prevented or			
3	inhibited from binding to the biological material.				
3	mmonod from omain				
1	22.	The method of claim 21, wherein the unwanted protein is selected from			
2	the group comprising	alkaline phosphatase, Thy-1, and acetylcholinesterase.			
1	23.	A method of eliminating or reducing infection in a biological material,			
2	the method comprising removing a binding site comprising binding site a protein or				
3	polysaccharide, conta	ined in the material so that an infectious agent is prevented or inhibited			

2 the infectious agent is prion protein.

from binding to the biological material.

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The method of claim 23, wherein the infection is prion infection, and

maintained.

1	25.	The method of claim 23, wherein the structural integrity of the tissue is		
2	maintained.			
1	26.	The method of claim 23, further comprising contacting the		
2	bioprosthetic tissue	with a preparation comprising an enzyme that digests the binding site.		
1	27.	The method of claim 26, wherein the preparation comprises		
2	heparinase, in an amount effective to remove the binding site.			
1	29	The most of of their 22 foother commission and the		
1	28.	The method of claim 23, further comprising contacting the		
7	bioprosthetic tissue with a preparation comprising a solvent, a surfactant, or a chaotropic			
3	agent in an amount	effective to extract the binding site from the tissue.		
1	29.	The method of claim 23, further comprising contacting the		
2				
	bioprosthetic tissue with a preparation that chemically/derivatizes a polycationic site, thereby			
3	eliminating the bind	ling site from the tissue.		
1	30.	The method of claim 23, wherein the binding sites has binding affinity		
2	to exogenous prion	protein.		
1	31.	The method of claim 23, further comprising contacting the tissue with		
1		/		
2	a preparation that has binding affinity for endogenous prion protein, so that a bound complex			
3	is formed between	the preparation and the endogenous prion protein.		
1	32.	The method of claim 31, further comprising a washing step to remove		
2	the bound complex from the tissue.			
1	33.	A method of eliminating or reducing infection in a bioprosthetic tissue,		
2				
	the method comprising blocking a binding site contained in the tissue so that an infectious			
3	agent is prevented of	or inhibited from binding to the binding site.		
1	34.	The method of claim 33, wherein the infection of prion infection, and		
2	the infectious agent	is/prion protein.		
1	35.	/ The method of claim 33, wherein the structural integrity of the tissue is		

1	36.	The method of claim 33, wherein the blocking step further comprises		
2	contacting the biopro	osthetic tissue with a preparation comprising one or more polysulfonated		
3	polyglycosides.			
1	37.	The method of claim 36, wherein the one or more polysulfonated		
2	polyglycosides are se	elected from a group consisting of pentosan polysulfate, sulfated		
3	colomycin, dextran s	sulfate, sulfated carageenans, and heparin/heparan/sulfate.		
1	38.	The method of claim 36, wherein the contacting step is performed at a		
2	temperature of about	/ / C. *		
/1	39.	The method of claim 33, wherein the contacting step promotes the		
2	dissociation of prion	protein from the bioprosthetic tissue!		
1	40.	A method of eliminating or reducing infection in a bioprosthetic tissue,		
2	the method comprising blocking an infectious agent so that the infectious agent is prevented			
3	or inhibited from bin	ding to a binding site in the fissue.		
1	4.1	The weeks d of claim 40 subscript the infection is union infection and		
1	41.	The method of claim 40, wherein the infection is prion infection, and		
2	the infectious agent i	s prion protein.		
1	42.	The method of claim 40, wherein the blocking step further comprises		
2	contacting the biopro	osthetic tissue with a preparation comprising a compounds selected from		
3	tetrasubstituted porphyrin, polyanionic fungal agent, congo red, fast red, trypan red and			
4	combinations thereo			
1	43.	The method of claim 40, wherein the method is performed before,		
2	during, or after fixati	ion.		
1	44.	The method of claim 40, wherein the method is performed during		
2	bioburden reduction.			
1	45.	The method of claim 40, wherein the method is performed during final		
2	sterilization.	The medica of claim 10, wherein the medica is performed during than		
۷	SWIIIZation./			
1	/ 46.	The method of claim 40, wherein the method is performed during		
2	packaging.			

or more cross-linkable groups that prevent or inhibit dissociation of the one or more

The method of claim 46, further comprising storing the tissue in the

The method of claim 42, wherein the preparation further comprises one

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preparation.

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group consisting of phosphatidylinositol, phosphatidylethanolamine,

The method of claim 50, wherein the phospholipid is selected from the

- gangliotetraosylceramide, phosphatidylserine, phosphatidylcholine, phosphatidic acid, and
  sphingomyelin.
  59. The method of claim 53, further comprising contacting the tissue with
  a preparation including a phospholipase.
- 1 60. The method of claim 50, further comprising contacting the 2 bioprosthetic tissue with a preparation comprising formaldehyde, ethanol, and Tween 80.